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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Akira OKAMOTO et al

Art Unit: 2832

S. N. 09/980,959 ✓

Examiner:

International S.N.: PCT/JP99/02566

Filed: October 29, 2001

International Filing Date: 18 May 1999

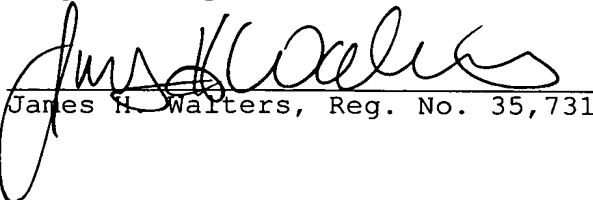
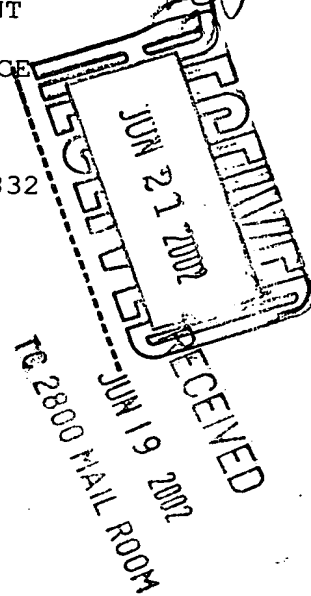
For: INDUCTOR ELEMENT

REQUEST FOR CORRECTED FILING RECEIPTAssistant Commissioner for Patents
Washington, D.C. 20231Attention: Office of Initial Patent Examination's
Customer Service Center

Sir:

A copy of the filing receipt that has been issued in connection with this application is enclosed. The information given in the filing receipt contains a typographical error in the title of the application, in that the spelling of the title is given as "INTROCTOR ELEMENT" when in fact the title should be spelled --**INDUCTOR ELEMENT**--, as noted on the first page of the application, the first page of the declaration, the inventor information sheet, the first page of transmittal letter, the certificate of mailing, and the return postcard (copies enclosed) which were filed with this application. It is therefore requested that a corrected filing receipt showing the title of this application to be **INDUCTOR ELEMENT** be issued.

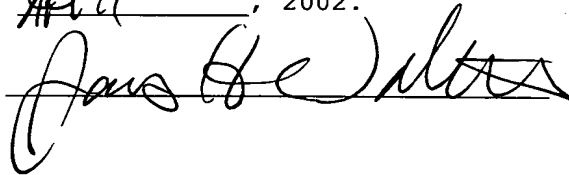
Respectfully submitted,


James H. Walters, Reg. No. 35,731802
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DOCKET: A-411

S.N. 09/980,959 (PCT/JP99/02566)
Filed October 29, 2001 (18 May 1999)
Request for Corrected Filing
Receipt and related documents

Certificate of Mailing

I hereby certify that this correspondence is being deposited as first class mail with the United States Postal Service in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231, on this 19th day of April, 2002.



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UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO.	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/980,959	10/29/2001	2832	890	A-411	8	10	1

802
DELLETT AND WALTERS
310 S.W. FOURTH AVENUE
SUITE 1101
PORTLAND, OR 97204

CONFIRMATION NO. 3454

FILING RECEIPT



OC000000007458198

Date Mailed: 02/12/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Akira Okamoto, Saitama, JAPAN;
Takeshi Ikeda, Tokyo, JAPAN;

Domestic Priority data as claimed by applicant

THIS APPLICATION IS A 371 OF PCT/JP99/02566 05/18/1999

Foreign Applications

Projected Publication Date: Not Applicable, filed prior to November 29, 2000

Non-Publication Request: No

Early Publication Request: No

Title

Inductor
~~Inductor~~ element

Preliminary Class

336

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**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

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SPECIFICATION

INDUCTOR ELEMENT

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TECHNICAL FIELD

The present invention relates to an inductor element that can be formed on various kinds of substrates such as a semiconductor substrate.

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BACKGROUND ART

There is known such a semiconductor circuit that forms a spiral pattern on a semiconductor substrate by using thin film forming technique, and uses this pattern as an inductor element. When current flows in such an inductor element that is formed on a semiconductor substrate, magnetic flux is generated in the direction perpendicular to a spiral pattern. Nevertheless, since eddy currents are induced on the front side of the semiconductor substrate by this magnetic flux to cancel effective magnetic flux, there is such a problem that doesn't effectively function as the inductor element. In particular, since the higher a frequency of a signal which flows in the inductor element becomes, the more remarkable this inclination becomes, and consequently it is difficult to form a high frequency circuit including the inductor element on a semiconductor substrate.

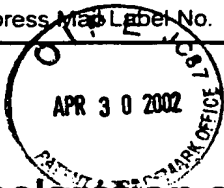
DISCLOSURE OF THE INVENTION

The present invention is achieved in view of such a point. Its object is to provide an inductor element that effectively functions even if the inductor element is formed on a substrate.

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Express Mail Label No. **EL 898003337US**

Page 1 of 3



Docket No.
A-411

Declaration and Power of Attorney For Patent Application

English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

INDUCTOR ELEMENT

the specification of which

(check one)

☐ is attached hereto.

☒ was filed on 18 May 1999 as United States Application No. or PCT International Application Number PCT/JP99/02566 and was amended on _____

(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	<input type="checkbox"/>
_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	<input type="checkbox"/>
_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	<input type="checkbox"/>

☐
☐
☐

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Country of Residence:: Japan
Citizenship Country:: Japan

CORRESPONDENCE INFORMATION

Correspondence Customer Number:: 802
Electronic Mail One:: patents@onemain.com

APPLICATION INFORMATION

Title Line One:: ~~INDUCTOR ELEMENT~~
Total Drawing Sheets:: 8
Formal Drawings?: Yes
Application Type:: Utility
Docket Number:: A-411
Secrecy Order in Parent Appl.?: No

REPRESENTATIVE INFORMATION

Representative Customer Number:: 802
Registration Number One:: 35731

CONTINUITY INFORMATION

This application is a:: 371 OF
> Application One:: PCT/JP99/02566
Filing Date:: 05-18-1999

File # A-411-89003337US

FORM PTO-1390 (Modified) (REV 11-2000)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER A-411	
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371				U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR	
INTERNATIONAL APPLICATION NO. PCT/JP9902566		INTERNATIONAL FILING DATE 18 May 1999		PRIORITY DATE CLAIMED 18 May 1999	
TITLE OF INVENTION INDUCTOR ELEMENT					
APPLICANT(S) FOR DO/EO/US Akira OKAMOTO et al					

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

- ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
- ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
- ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
- ☒ The US has been elected by the expiration of 19 months from the priority date (Article 31).
- ☒ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
 - ☐ is attached hereto (required only if not communicated by the International Bureau).
 - ☒ has been communicated by the International Bureau.
 - ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
- ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - ☒ is attached hereto.
 - ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
- ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - ☐ are attached hereto (required only if not communicated by the International Bureau).
 - ☐ have been communicated by the International Bureau.
 - ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - ☒ have not been made and will not be made.
- ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
- ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
- ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
- ☒ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
- ☒ A copy of the International Search Report (PCT/ISA/210).

Items 13 to 20 below concern document(s) or information included:

- ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
- ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
- ☒ A **FIRST** preliminary amendment.
- ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
- ☐ A substitute specification.
- ☐ A change of power of attorney and/or address letter.
- ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
- ☒ A second copy of the published international application under 35 U.S.C. 154(d)(4).
- ☒ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
- ☒ Certificate of Mailing by Express Mail
- ☒ Other items or information:

Inventor Information Sheet
Copy of Form PCT/IB/308; Copy of Form PCT/IB/306
English translation of International Preliminary Examination Report
English translation of International Search Report ((Form PCT/ISA/210 (second sheet))

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CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)			Docket No. A-411
Applicant(s): Akira OKAMOTO et al			
Serial No. PCT/JP99/02566	Filing Date 18 May 1999	Examiner	Group Art Unit
Invention: INDUCTORELEMENT			
<p>I hereby certify that the following correspondence:</p> <div style="border: 1px solid black; padding: 10px; text-align: center;"><p>Entry to National Phase Transmittal (& documents & fees listed as enclosed)</p><p><i>(Identify type of correspondence)</i></p></div> <p>is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: The Assistant Commissioner for Patents, Washington, D.C. 20231 on</p> <p><u>OCT 29, 2001</u> (Date)</p> <div style="text-align: right; margin-top: 20px;"><p>James H. Walters (Typed or Printed Name of Person Mailing Correspondence)</p><p><i>[Signature]</i> (Signature of Person Mailing Correspondence)</p><p>EL898003337US (<i>"Express Mail"</i> Mailing Label Number)</p></div>			

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In re Application of: Akira OKAMOTO et al

Serial Number: PCT/JP99/02566

Filing Date: 18 May 1999

Title: INDUCTOR ELEMENT

Docket Number: A-411

09/980959

Receipt is hereby acknowledged in the United States Patent and Trademark Office of the following: Patent application entry into the National phase including transmittal, English translation of International application (including 12 pages specification, 2 pages claims, 1 page abstract, 8 sheets drawings); 2nd copy of English language translation, 2nd copy of published international application, combined declaration and power of attorney, assignment and assignment recordation cover sheet, preliminary amendment w/1 sheet proposed drawing amendment and replacement drawing sheet, copy of Form PCT/IB/308, Form PCT/IB/306, copy of International search report w/English translation, copy of International Preliminary Examination report w/English translation, check/credit card payment form for \$930.00 (\$890 filing fee/\$40 assignment recordation fee), certificate of mailing by Express Mail Label No. EL898003337US, and this return postcard as of the date stamped hereon.

JC14 Rec'd PCT/PTO 29 OCT 2001